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Name(s)	Project Number
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Project Title	
Contaminated Milk	
Abstract	
Objectives/Goals	
Find out which milk (Vitamin D (whole), 2%, or Fat-Free) will contain the mo	st amounts of bacteria
Methods/Materials	
Need agar powder, liter of water, Incubator, Vitamin D (whole) milk, 2% milk, fat-free milk, Petri dishes,	
Pipette, Q tips, Bacteria colony counter	
Leave the Vitamin D milk in the incubator. Make the agar solution. Put agar so	plution on the petri dishes.
Bring Vitamin D milk out of the incubator. Use pipette to measure 0.25 ml of milk. Squeeze 0.25 ml of	
milk on all of the petri dishes. Put lids on the petri dishes and put the petri dishes in the incubator. Bring	
out the petri dishes after 2 days and count the number of bacteria colonies. Rep other 2 types of milk	beat the process with the
Results	
The Vitamin D (whole) milk had an average of 5.5 bacteria colonies in it, the 2% milk had an average of	
2.5 colonies in it, the Fat-Free milk only contained about 0.6 colonies. There was no high point or low	
points for the Fat-Free milk. There were no high points or low points for the 2% milk. The high point for the Vitamin D (whole) milk	
Conclusions/Discussion	Ramm D (whole) mik.
My hypothesis was supported. My hypothesis that if Vitamin D (whole), 2%, and fat-free milk are left in	
an incubator at 37°C for 2 days, then Vitamin D will have the most bacteria colonies on it because	
an average of 5.5 colonies in it. The 2% milk had 2.5 colonies in it. The Fat-free milk had 0.6 colonies in	
it.	
The reason to this might be that the amount of fat are different in the three milks. From the nutrition facts,	
the Vitamin D contains 8 grams of fat per cup. The 2% milk has 5 grams of fat and per cup. The Fat-free milk has 0 grams of fat, par cup. The reason why this happened might also he due to that the amount of	
pasteurization in the milks are different. The less the amount of pasteurization, the more bacteria will be	
in the milk. Vitamin D milk is the least pasteurized milk, so it contains the most	st bacteria.
Summary Statement	
Count the amount of bacteria colonies on Vitamin D (whole) milk, 2% milk, and Fat-Free milk.	
Help Received	
Got materials from Ms. Herrington and did my experiment in her room.	